

## r29.0 Changelog

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| r29.0 Release - 196648 |  
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Release day: September 11th 2024

### Improvements

We have made a number of significant improvements to the IP-VFC. Due to changes to the IP-VFC firmware, any user wishing to use the IP-VFC on a Designer project built in software version r29.0 onwards must also update the IP-VFC firmware version to 23.0.7. The firmware version on an IP-VFC can be upgraded and downgraded, but must be used with a compatible Designer software version.

Please refer to the following compatibility table in order to understand which IP-VFC firmware versions are compatible with which Designer software versions:

Designer software version	IP-VFC firmware version
r23.3 to r28.1.1	1.01
r29.0 +	23.0.7

All IP-VFCs being used in the session must be updated to run on the same firmware version. The IP-VFC firmware updater tool and a guide to updating the firmware can be found under the VFC Firmware Update tab [here](#).

#### IP-VFC SDI mode changes

- DSOF-22892 - You now no longer need to enable the enableSDIIPVFC option switch to use your IP-VFC with SDI SFPs

- DSOF-23731 - The IP-VFC card's list of supported formats now correctly hides unsupported formats.

720p and QUAD video output modes on the IP-VFC when running in SDI mode are greyed out by default as they are not currently fully supported. They can be enabled for testing via the `enableIPSDIExperimentalModes` option switch, however they are not fully supported and if you do plan to use them please reach out to support to discuss the limitations and risks.

- DSOF-27405 - IP-VFC cards will now output an SDI video stream correctly if only a single SFP is attached to the 2nd output port.
- DSOF-25602 - IP-VFC cards now no longer expose a TPG field when in SDI mode

In previous releases, when an IP-VFC was in SDI mode, there was a field in the output port properties called TPG, which stands for Test Pattern Generator. We have removed this field as the functionality is replicated by rendering a test pattern via a video layer.

- DSOF-25603 - IP-VFC cards in SDI mode can no longer independently be set to "Frame Replay".

In previous releases, when an IP-VFC was in SDI mode, there was a field in the output port properties called "Frame Replay". We have removed this field as the functionality is replicated by the 'Hold output' function, which allows the user to freeze the output on one or a selection screens.

### **IP-VFC ST 2110 mode changes**

- DSOF-26523 - You can now select your PTP profile on the IP-VFC from the Designer interface when in ST 2110 output mode.

The options we support are:

SMPTE2059-2015

SMPTE2059-2021

- DSOF-26546 - You can now fully configure your IP-VFC card without requiring SFPs be connected first.

- DSOF-26999 - IP-VFC cards in an understudy machine will no longer take on the network port configuration of the IP-VFCs in the machine they are taking over from during failover.
- DSOF-27487 - IP-VFC cards now startup network interfaces on boot much more quickly.
- DSOF-22772 - IP-VFC cards will no longer intermittently hang indefinitely when you modify their network configuration.
- DSOF-23944 - Selecting PTP sync in the feed view will now automatically set all installed IP-VFCs in ST 2110 output mode to PTP sync mode (you can change them manually later, but this configuration is the most reliable for sync).
- DSOF-26532 - The Genlock indicator in the feed view no longer intermittently reports that IP-VFC cards in ST 2110 output mode are PTP locked when they are not.
- DSOF-26541 - Manual changes to the IP VFC cards network configuration are now correctly undoable.
- DSOF-26542 - IP addresses in the IP-VFC editor will no longer react erratically to the scroll wheel.
- DSOF-26543 - IP-VFC cards in ST 2110 mode will now correctly stay in EXT sync mode when it is set.
- DSOF-23860 - The IP-VFC editor will now warn you if you enter an invalid multicast address.
- DSOF-26700 - The IP-VFC editor will now highlight your network settings in red if the IP address supplied is not on the same subnet as your gateway.
- DSOF-27392 - IP-VFC cards in ST 2110 mode will no longer intermittently fail to create a video stream.

### **IP-VFC General changes**

- DSOF-26574 - The IP-VFC will now display a grey-pink border in the feed view if it is non-responsive.
- DSOF-24968 - d3service and Designer now log more verbosely about the state of IP-VFC when it's being configured to help us better diagnose problems in the field.
- DSOF-26641 - Designer will no longer display an access violation when joining session with an IP-VFC card and loading directly in to the feed view.

- DSOF-26651 - The IP-VFC GUI will now always update with the correct PTP clock ID after applying genlock or feed settings.
- DSOF-26666 - Machines will no longer hang indefinitely when applying feed settings if the first IP-VFC card in the server cannot detect a genlock source.
- DSOF-26679 - Designer will no longer intermittently display an access violation when inspecting a machine that has IP-VFC cards attached.
- DSOF-26685 - Once configured, the IP-VFC will now wait less time to output a video stream.
- DSOF-26803 - Designer will no longer display and access violation when opening the editor of a machine that had IP-VFC cards installed but is now offline.
- DSOF-27404 - IP-VFC cards will no longer intermittently fail to initialize properly on machine boot.
- DSOF-27424 - Genlocking a machine via the IP-VFC card is now much more reliable.
- DSOF-28012 - EX range director machines will now correctly apply IP-VFC configuration to actor machines with IP-VFC cards connected.
- DSOF-24289 - Servers with IP-VFC cards installed that are set to genlock in EXT sync mode now respond correctly to upstream genlock signal changes.
- DSOF-24868 - You no longer need to apply feed settings on every system reboot to output from IP-VFC cards.

## Other Improvements

We've been working on things other than the IP-VFC too.

- DSOF-28200 - You can now specify a default gamma space colour transform for all new ingested media and all newly created displays.

In Project Settings under 'Colour Management' you will find two new entries when the mode is set to 'Gamma Space' which each accept a colour profile object:

'Default ingest profile'

### 'Default display profile'

- DSOF-28053 - For DMX Screens you can now select the new GRBW Fixture type (one step closer to having all the permutations!).

## Fixes

- DSOF-20707 - Selecting a new feed scene for a machine will now correctly update the feed name displayed in the feed view.
- DSOF-22779/22970 - Changing the split mode of a Quad-split capable VFC card from Mirror to Quad or Quad 4K will no longer randomly create or delete virtual heads erroneously.
- DSOF-22969 - When changing the split mode of a VFC card it will no longer move the Matrix Routing settings of subsequent VFC cards on to their neighbors.
- DSOF-23271 - Changing Quad-split to Mirror mode will no longer intermittently display an access violation in specific projects.
- DSOF-24035/28127/26713 - We have made various improvements to tooltip behaviour in this release:
  - Tooltips will now be slower to display and display more consistently across the UI.
  - We have improved a range of tooltips to make them more explanatory and helpful.
  - Tooltips for broken expressions now better explain what's wrong and how to fix it.
- DSOF-25733 - All OSC Event Transport messages now correctly highlight in blue when triggered.
- DSOF-28138 - d3service logs are now simpler to assist with troubleshooting.